

ABSTRACT OF THE DISCLOSURE

5 In writing data, when a bit line is selected and a data write current is caused to flow the selected bit line, a cancel current for canceling a magnetic field induced by the data write current is caused to flow in the direction opposite to the data write current on the selected bit line through a bit line adjacent to the selected bit line. Magnetic field interference between adjacent memory cells to each other is suppressed in a magnetic semiconductor memory device.